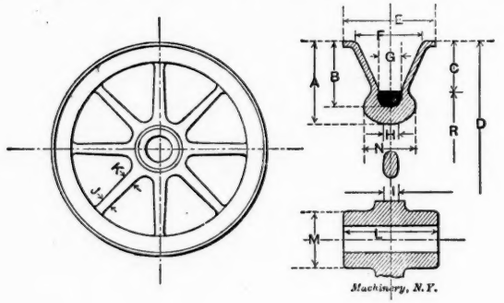
PUNCH PUNCH

CREASE HERE.

PROPORTIONS OF SHEAVE WHEELS FOR IRON AND STEEL ROPES.

(Brown Hoisting & Conveying Machine Co.)



Machinery, N.Y.

Size of Wheel.	C. to C. of Rope. R	D	A	B	C	E	F	G	H	I	J	K	L	M	N	Amt. of Leather in Groove.	Amt. of Rubber in Groove.	Weight of Finished Wheel.	No. of Arms.
14′	14′ 0″	14′ 10″	9 1/2	7	5	5 13/16	5	1 1/2	...	...	...	...	28	...	...	...	...	5120	8 double W. I. ribs
12′	11′ 11″	12′ 8′	7 3/4	6 3/8	4 1/2	6 1/4	5	1 15/16	...	...	...	...	20	12	3 1/2	...	...	3442	8 straight W.I. ribs.
11′	11′ 0″	11′ 9 1/2″	8 15/16	6 5/16	4 9/16	5 7/16	4 3/8	1 1/4	...	...	...	...	18	11	3 1/2	...	...	.....	8 straight W.I. ribs.
10′	10′ 1″	10′ 8″	6 1/4	5	3 1/2	5 1/8	4	1 5/16	1 1/4	1 1/4	3 3/4	5	15	12	3 1/2	16	42	2400	8 curved elliptical.
9′	9′ 1″	9′ 8″	"	5	3 1/2	5 1/8	4	1 5/16	1 1/4	1 1/8	3 1/4	4 1/2	12 1/2	9	3 1/2	15	36	1800	8 straight ribbed.
8′	7′ 11 3/4″	8′ 8″	7	5 1/4	4 1/8	5 7/16	4 3/16	1 1/8	2 1/2	3	2 1/2	3 1/2	13	8 1/2	3 1/2	13	31	1390	8 curved elliptical.
7′	7′ 1″	7′ 8″	6	5	3 1/2	4 7/8	4	1 5/16	1 1/8	1 7/16	2 1/4	3 1/2	12	8	3	11	27	975	8
6′	6′ 0 3/4	6′ 6 3/4″	5 1/2	4 1/2	3	4 5/16	3 7/16	1 5/16	1 1/8	1 1/2	2 1/4	3	10 1/2	7	3	8 1/4	21	800	8
5′	5′ 0″	5′ 5″	4 1/2	3 3/4	2 1/2	3 15/16	3 1/8	1 1/8	3/4	7/8	2 1/4	2 3/4	6	6	2 11/16	5 1/2	12 1/2	450	8
4′	4′ 0″	4′ 5 1/4″	3 7/8	3 1/16	2 5/8	3	2 3/16	1 1/16	3/4	7/8	1 5/8	2 1/4	6	4-6	1 15/16	3 1/2	7 1/2	275	8
3′	3′ 0″	3′ 3″	3 1/4	2 3/4	1 1/2	2 7/8	2	1 1/16	3/4	7/8	1 1/4	2	5 1/2	4 1/2	2	2 1/2	5	101	6
30″	2′ 6″	2′ 8 1/2″	2 7/8	2 3/8	1 1/16	2 3/16	1 1/2	1 1/16	5/8	3/4	1 1/2	1 3/4	4 1/2	4	1 5/8	1 3/4	4 1/2	95	6
24″	2′ 0″	2′ 2″	2 5/8	2 1/8	1	2 1/4	1 1/2	1 1/16	5/8	5/8	1 1/2	1 3/4	3 1/4	3	1 1/4	1	3 3/4	66	5
18″	1′ 6″	1′ 8″	2 5/8	2 1/8	1	2 1/4	1 1/2	1 1/16	5/8	5/8	1 1/4	1 1/2	3	3 1/2	1 1/4	1/2	1 1/4	46	5
36″	3′ 1″	3′ 5″	4 5/8	3 1/8	2	3 5/16	2 1/4	1 1/8	1 1/8	1 1/8	2 1/4	2 1/4	6 3/4	5 5/8	2 1/2	4	11 1/2	308	5
35″	2′ 11″	3′ 2″	3 1/4	2 3/4	1 1/2	2 7/8	2	1 3/16	3/4	7/8	1 3/4	2	5 1/2	4 1/2	2	1 1/2	5	183	6
32″	2′ 8 3/4″	2′ 10 1/2″	3 1/8	2 3/16	7/8	2	1 7/16	5/8	3/4	15/16	1 1/2	2	4 1/2	4 1/2	1 1/8	1 3/4	4 1/2	105	7 curved elliptical.
24″	2′ 1 1/2″	2′ 4 1/2″	3 7/16	2 7/8	1 1/8	3 3/16	2 7/16	7/8	3/4	3/4	1 9/16	1 3/4	4	3 7/8	2	1 1/2	4	108	6
21″	1′ 9″	2′ 0″	3 1/2	2 3/4	1 1/8	2 7/8	2	1 1/16	3/4	3/4	1 1/8	1 3/4	4	3 1/2	2	1	3	92	5

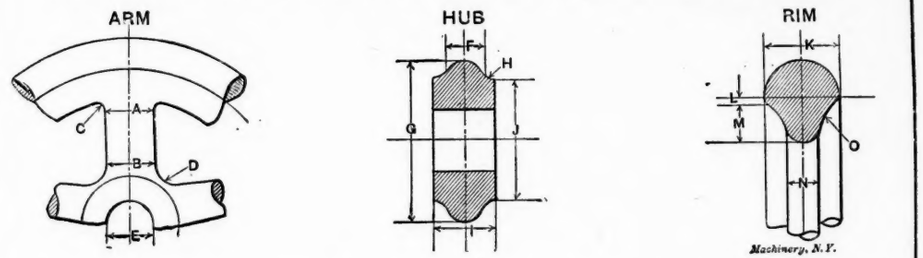
Contributed by S. J. Nelson, Chicago, Ill.

Supplement to MACHINERY, November, 1904.

PUNCH PUNCH

CREASE HERE.

PROPORTIONS OF ARM, HUB AND RIM FOR HAND WHEELS.



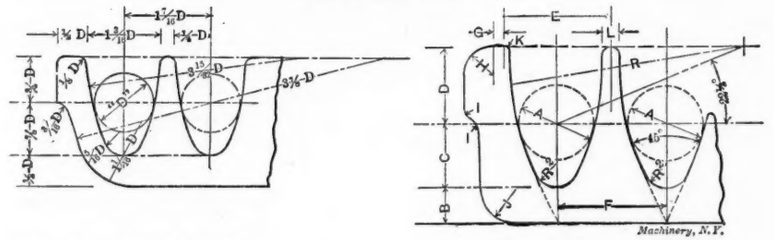
Machinery, N.Y.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
6	11/16	1 3/16	1/2	3/8	11/16	7/16	1 29/32	1/16	3/16	1 1/16	7/8	1/16	7/16	3/8	1/2
8	13/16	1	5/8	1/2	13/16	1/2	2 9/32	5/16	1/4	1 5/16	1	1/8	1/2	7/16	5/8
10	15/16	1 3/16	3/4	5/8	15/16	9/16	2 41/64	3/8	5/16	1 9/16	1 1/8	1/8	9/16	1/2	3/4
12	1 1/16	1 3/8	7/8	3/4	1 1/16	5/8	3	7/16	3/8	1 13/16	1 1/4	1/8	5/8	9/16	7/8
14	1 3/16	1 9/16	1	7/8	1 3/16	11/16	3 11/32	1/2	7/16	2 1/16	1 3/8	1/8	11/16	5/8	1
16	1 5/16	1 3/4	1 1/8	1	1 5/16	3/4	3 5/8	9/16	1/2	2 5/16	1 1/2	1/8	3/4	11/16	1 1/8
18	1 7/16	1 15/16	1 1/4	1 1/8	1 7/16	13/16	4 3/32	5/8	9/16	2 9/16	1 5/8	1/8	13/16	3/4	1 1/4

Contributed by M. J. Hallam, Waterbury, Conn.

PROPORTIONS OF GROOVES FOR MANILA ROPE.

(Jeffrey Mfg. Co.)



Machinery, N.Y.

Contributed by S. J. Nelson, Chicago, Ill.

Rope Diam. A	B	C	D	E	F	G	H	I	J	K	L
5/16	5/16	5/16	1 3/16	1 3/16	1 3/16	1/16	5/16	3/16	11/16	1/16	1/16
1	7/16	7/16	1 7/16	1 7/16	1 7/16	1/16	7/16	1/4	13/16	1/16	1/16
1 1/16	7/16	7/16	1 7/16	1 7/16	1 7/16	1/16	7/16	1/4	13/16	1/16	1/16
1 1/8	1/2	1/2	1 9/16	2	2	1/16	1/2	5/16	15/16	1/16	1/16
1 3/16	1/2	1/2	1 11/16	2 1/16	2 1/16	1/16	1/2	5/16	15/16	1/16	1/16
1 1/4	1/2	1/2	1 11/16	2 1/16	2 1/16	1/16	1/2	5/16	15/16	1/16	1/16
1 5/16	1/2	1/2	1 11/16	2 1/16	2 1/16	1/16	1/2	5/16	15/16	1/16	1/16
1 3/8	1/2	1/2	1 11/16	2 1/16	2 1/16	1/16	1/2	5/16	15/16	1/16	1/16
1 7/16	1/2	1/2	1 11/16	2 1/16	2 1/16	1/16	1/2	5/16	15/16	1/16	1/16
1 1/2	1/2	1/2	1 11/16	2 1/16	2 1/16	1/16	1/2	5/16	15/16	1/16	1/16
1 9/16	1/2	1/2	1 11/16	2 1/16	2 1/16	1/16	1/2	5/16	15/16	1/16	1/16
1 5/8	1/2	1/2	1 11/16	2 1/16	2 1/16	1/16	1/2	5/16	15/16	1/16	1/16
1 11/16	1/2	1/2	1 11/16	2 1/16	2 1/16	1/16	1/2	5/16	15/16	1/16	1/16
1 3/4	1/2	1/2	1 11/16	2 1/16	2 1/16	1/16	1/2	5/16	15/16	1/16	1/16
1 13/16	1/2	1/2	1 11/16	2 1/16	2 1/16	1/16	1/2	5/16	15/16	1/16	1/16
1 7/8	1/2	1/2	1 11/16	2 1/16	2 1/16	1/16	1/2	5/16	15/16	1/16	1/16
1 15/16	1/2	1/2	1 11/16	2 1/16	2 1/16	1/16	1/2	5/16	15/16	1/16	1/16
2	1/2	1/2	1 11/16	2 1/16	2 1/16	1/16	1/2	5/16	15/16	1/16	1/16

NOTE.—Radius "R" is determined by trial and is to be tangent to intersecting lines.

The long radius "R" is determined by drawing a line through center of rope, at an angle of 22½° (with horizontal center line), producing it until it intersects a line drawn on tops of dividing ribs.

6 x 9 DATA SHEETS.

These data sheets are intended to be cut into four sections, 6 x 9 inches in size, as indicated by the straight lines. They may then be bound into note-book form for convenient reference by means of staples inserted in holes punched at the points indicated. A suitable binder for these data sheets will be supplied for 25 cents. This binder has an open back and will hold an indefinite number of 6 x 9 sheets, depending on the length of staples used.

Additional data sheets will be published from time to time, and suggestions for additional data sheets will be welcomed. Only data not available in engineers' handbooks desired.